Labeeb Hasan Zaker

🌐 labeebhasanzaker.com | 📞 905 536 0138 | ✉ labeebzaker@gmail.com | 🔗 linkedin.com/in/labeeb-hasan-zaker
| 🔧 github.com/zakerl

An aspiring Mechatronics Engineering student who is interested in Software Development, Artificial Intelligence and Web-Development. I am passionate, goal-oriented Developer with strong commitment to collaboration and solutions-oriented-problem solving. I love to learn and play with technologies, trying to achieve new outcomes.

EDUCATION AND INVOLVEMENT

Mechatronics Engineering (GPA- 3.85)

MCMASTER UNIVERSITY   SEPTEMBER 2018 - APRIL 2022

Relevant courses: Engineering Computation (Python, Grade: A+), Programming for Mechatronics (C language)

McMaster Eco-Car Club CAVS Programmer   SEPTEMBER 2019 – PRESENT

- Implemented a **Matlab** code to receive data from the car sensors (**Sensor Fusion**)
- **Collaborated** with teammates on developing the ACC (Adaptive Cruise Control) algorithm using **Matlab**

SKILLS

- *Front-end:* HTML5, CSS3, jQuery   *Languages:* JavaScript, Python, C/C++, Matlab
- *Back-end:* Node.JS, MongoDB, Rest API   *Frameworks:* Bootstrap4, Express.JS, Git, ReactJS

PERSONAL PROJECTS

BloggersInc| HTML5, Semantic UI, CSS3, JavaScript, JQuery, Node.JS, Express.JS

- Designed social media site which allows users to create blog posts, make comments and edit them.
- Used **MongoDB** to organize and store non-relational databases of **~30** users, blogs and comments
- Constructed a **secure** user login form using **Passport.JS** library

Vehicle Collision Avoidance Program|Python3

- Lead development of an adaptive **Python** program that could detect obstacles, road conditions, and lane markers using **OpenCV, NumPy**, **matplotlib** libraries
- Employed **NumPy** to account for **data processing** on arrays of integer coordinates, thus increasing **accuracy** of computer detection results on lanes
- Implemented **CV2** library to **visualize** the detection results on various videos or images

Personal Portfolio| HTML5, Bootstrap4, CSS3, JavaScript, JQuery, Node.JS, Express.JS

- Created portfolio site where people can learn more about me, learn about my projects, and contact me.
- Improved **site-responsiveness**, by adding **Bootstrap4** built-in **responsive breakpoints**, which adjusts and aligns the content based on current window size
- Refined **communication** service by integrating **node-mailer** library to handle over a **100** monthly emails

CampInsiders| HTML5, Bootstrap4, CSS3, JavaScript, JQuery, Node.JS, Express.JS

- Designed a review site which allows users to create, add reviews, and comments to campgrounds
- Integrated **Google Maps API** to allow the users to view locations on the website
- Used **MongoDB** and **JavaScript** to create an interactive search bar to filter campgrounds based on input